

Serial No. 09/617,564
Docket No. GSH 08-886639
Amendment F under Rule 116

AMENDMENTS TO THE CLAIMS:

Please cancel claims 4 and 6, without prejudice, and amend claims 1, 5, 7, 8 and 9, as set forth below.

This listing of claims will replace all prior versions and listings of claims in the Application:

Claim 1 (currently amended): A method of resetting an array of active pixel sensors (APS) during a reset cycle wherein the sensors are arranged in rows and columns and formed into predetermined groups each having one or more sensors, wherein the reset cycle comprises the steps of:

(a) sequentially applying a pre-reset voltage to each of the predetermined groups of one or more sensors in the array[[:]] by:

(a.i) detecting the bias voltage level of the sensor array; and

(a.ii) selecting the number of sensors in the groups as a function of the bias voltage detected; and

(b) subsequently applying a predetermined reset voltage to all of the sensors in the array substantially simultaneously.

Claim 2 (original) A method as claimed in claim 1 wherein each group comprises one or more rows of sensors.

Claim 3 (original) A method as claimed in claim 1 wherein each group comprises one or more columns of sensors.

Claim 4 (cancelled)

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Claim 5 (currently amended): Apparatus for resetting an array of active pixel sensors (APS) during a reset cycle wherein the sensors are arranged in rows and columns and formed into predetermined groups each having one or more sensors, comprising:

- (a) a controller coupled to the sensor array for sequentially applying a pre-reset voltage to each of the predetermined groups of one or more sensors in the array; [[and]]
- (b) a controller coupled to the sensor array for subsequently applying a predetermined reset voltage to all of the sensors in the array substantially simultaneously[[.]];
- (c) a detector for detecting the bias voltage of the sensor array; and
- (d) the controller coupled to the voltage detector for determining the number of sensors in each group being pre-reset.

Claim 6 (cancelled)

Claim 7 (currently amended) Apparatus as claimed in claim [[6]] 5 wherein each group comprises one or more rows of sensors.

Claim 8 (currently amended) Apparatus as claimed in claim [[6]] 5 wherein each group comprises one or more columns of sensors.

Claim 9 (currently amended) A method of resetting an array of active pixel sensors (APS) arranged in rows and columns, comprising the steps of:

- (a) pre-resetting the sensors in the array by sequentially resetting groups of one or more sensors, wherein the pre-resetting step includes:
 - (a.i) detecting the bias voltage level of the sensor array; and
 - (a.ii) selecting the number of sensors in the pre-resetting groups as a function of the bias voltage detected; and

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(b) resetting all of the sensors at one time.

Claim 10 (previously presented): A method as claimed in claim 9 wherein each group comprises one or more rows of sensors.

Claim 11 (previously presented): A method as claimed in claim 9 wherein each group comprises one or more columns of sensors.

Claim 12 (previously presented): Apparatus for resetting an array of active pixel sensors (APS) arranged in rows and columns, comprising:

- (a) a controller coupled to the sensor array for sequentially pre-resetting groups of one or more sensors in the array, and for simultaneously resetting all of the sensors in the array;
- (b) a detector for detecting the bias voltage of the sensor array; and
- (c) the controller being coupled to the voltage detector for determining the number of sensors in each group being pre-reset.

Claim 13 (previously presented): Apparatus as claimed in claim 12 wherein each group comprises one or more rows of sensors.

Claim 14 (previously presented): Apparatus as claimed in claim 12 wherein each group comprises one or more columns of sensors.

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